

[54] **QUANTITATIVE DETERMINATION OF URIC ACID**

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[56] **References Cited**

**UNITED STATES PATENTS**

3,335,069 8/1967 Philip..... 195/103.5 R

3,349,006 10/1967 Gregory..... 195/103.5 R

**OTHER PUBLICATIONS**

Kageyama, N., Colorimetric Determination of Uric Acid using Uricase-Catalase, Chemical Abstracts, Vol. 71, 1969 (p. 49).

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[57] **ABSTRACT**

Uric acid is determined by contacting a sample suspected of containing uric acid with a phosphate buffer, an NADH solution, ethanol, alcohol dehydrogenase and catalase in the presence of air to form a reaction mixture containing 0.3 to 0.7 volume percent alcohol, measuring a first extinction value, adding uricase to the reaction mixture, measuring a second extinction value spectrophotometrically and taking the difference between the extinction values as a measure of the initial uric acid content in the sample.

**10 Claims, 2 Drawing Figures**